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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/556,456	11/10/2005	Takahiro Kitahara	Q90822 1306		
23373 SUGHRUE MI	7590 05/16/200 ON, PLLC	EXAMINER			
2100 PENNSY	LVANIA AVENUE, N	ZACHARIA, RAMSEY E			
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER	
			1794		
			MAIL DATE	DELIVERY MODE	
			05/16/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.		Applicant(s)				
		10/556,456		KITAHARA ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Ramsey Zacharia		1794				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cove	r sheet with the co	orrespondence ad	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS CO 1.136(a). In no event, howed od will apply and will expire ute, cause the application to	DMMUNICATION ever, may a reply be tim SIX (6) MONTHS from I to become ABANDONE	I. lely filed the mailing date of this of (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on <u>24</u>	April 2008						
·		nis action is non-fina	al.					
	Since this application is in condition for allow			secution as to the	e merits is			
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-3 and 6-8 is/are pending in the ap	oplication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>1-3 and 6-8</u> is/are rejected.							
	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction and	l/or election require	ment.					
	ion Papers							
	The specification is objected to by the Exami	ner						
•			iected to by the F	Examiner				
.0/	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	ınder 35 U.S.C. § 119							
	<u>-</u>	an priority under 35	IIIS C & 110/a)	-(d) or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>							
					Stane			
	3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Occurre attached detailed Office action for a list of the certified copies not received.								
Attachmen		<b>4</b> . □	Intoniou Common	(DTO 412)				
1) Notice of References Cited (PTO-892)  A) Interview Summary (PTO-413)  Discrete of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application								
Paper No(s)/Mail Date 6)								

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## **DETAILED ACTION**

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 102 / 103

2. Claims 1-3 and 6-8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Fukushi et al. (US 2003/0198770).

Fukushi et al. teach an article that may be used as a hose for conveying fuels (paragraph 0001). The article comprises a layer of a perhalogenated polymer (paragraph 0004). Additional layers comprising polymers, such as polyamides and polyolefins, may be used (paragraph 0037-0041). The perhalogenated polymer may comprise at least 95% of interpolymerized units, such as tetrafluoroethylene and chlorotrifluoroethylene, and further include other perfluorinated monomers (paragraph 0015). A polymer comprising at least 95% TFE and CTFE would be expected to have a fuel permeation coefficient that meets the limitations of claims 1-3 since such a polymer reads on the material described in the instant specification (see page 10, lines 5-13). Moreover, because the thickness of the perhalogenated layer (0.5 mm in the Examples) is within the range cited in the instant specification (see page 23, lines 23-27), the resulting fuel hose would be expected to have a fuel permeation rate that meets the limitation of claims 1-3.

While Fukushi et al. do not illustrate a specific embodiment wherein a copolymer of CTFE, TFE, and a comonomer is used as the perhalogenated polymer. However, Fukushi et al.

do teach that the perhalogenated polymer may comprise 95% of interpolymerized units such as TFE and CTFE in addition to other perfluorinated monomers (see paragraph 0015).

In the event that one skilled in the art would not readily envisage a perhalogenated polymer comprising 95% of a combination of CTFE and TFE in addition to other perfluorinated monomers, it would have been obvious to one skilled in the art to use both CTFE and TFE in the perhalogenated polymer since it has been held that it is *prima facie* obvious to combine two compositions (e.g. monomers of CTFE and monomers of TFE) each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition (e.g. monomers of CTFE and TFE) to be used for the very same purpose. See MPEP 2144.06.

## Response to Arguments

3. Applicant's arguments filed 24 April 2008 have been fully considered but they are not persuasive.

The applicants argue that Examples 6 and 7 in the instant specification demonstrate an unexpected effect of increased bonding strength after fuel storage in addition to a decreased fuel permeation rate.

This is not persuasive for the following reasons. First, it is noted that unexpected results cannot be relied upon to overcome a rejection based on anticipation. Moreover, showing is insufficient to overcome the rejection based on obviousness for at least the reason that the showing is not commensurate in scope with the claims. Claim 1 is directed to a laminate having a layer comprising a copolymer of chlorotrifluoroethylene with tetrafluoroethylene and/or ethylene and a layer comprising a fluorine-free organic material. However, Examples 6 and 7

use only one particular fluoropolymer (i.e. CTFE/TFE/PPVE copolymer) and one particular fluorine-free organic material (polyamide 12).

The applicants argue that Fukushi et al. does not disclose the use of a chlorotrifluoroethylene copolymer for improving liquid chemical impermeability and bonding strength.

However, this is not persuasive since Fukushi et al. do explicitly teach the use of polymers containing chlorotrifluoroethylene repeat units and it has been held that it is not necessary that the prior art suggest the claimed invention for the purpose of achieving the same advantage or result discovered by applicant. See MPEP 2144 IV.

The applicants further argue that a partially-fluorinated polymer of VDF is required by the article of Fukushi et al.

This is not persuasive because the claims have not been written with closed language.

Therefore, the laminate as claimed is open to the inclusion of other components including a partially-fluorinated layer comprising a VDF polymer.

## Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Zacharia whose telephone number is (571) 272-1518. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached at (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ramsey Zacharia/

Primary Examiner, Art Unit 1794